

Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

19146-002001

Application No.

10/699,555

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant

Beth Marcus, et al

Filing Date

October 31, 2003

Group Art Unit

2673

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RO	AA	5,365,589	11/15/1994	Howard A. Gutowitz			
	AB	5,432,510	7/11/1995	Walter S. Matthews			
	AC	5,782,642	7/21/1998	Michael Goren			
	AD	6,115,028	9/5/2000	Balakrishnan et al.			
	AE	6,219,731	4/17/2001	Howard A. Gutowitz			
	AF	6,228,709	5/8/2001	Wen-Yi Hsieh			
	AG	6,512,511	1/28/2003	Willner et al.			
	AH	6,573,844	6/3/2003	Venolia et al.			
	AI	6,606,486	8/12/2003	Cubbage et al.			
	AJ	6,654,733	11/25/2003	Goodman et al.			
	AK	6,703,963	3/9/2004	Timothy B. Higginson			
	AL	6,738,045	5/18/2004	Hinkley et al.			
	AM	6,741,235	5/25/2004	Michael Goren			
	AN	6,760,013	7/6/2004	Willner et al.			
	AO	6,865,718	3/8/2005	Levi Montalcini			
	AP	6,885,317	4/26/2005	Howard A. Gutowitz			
	AQ	6,885,318	4/26/2005	Matthew J. Bickerton			
	AR	6,911,608	6/28/2005	David H. Levy			
	AS	6,980,200	12/27/2005	Michael Goren			
V	AT	RE37723	6/4/2002	Michael Goren			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AU							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
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Examiner Signature

/Ricardo Osorio/

Date Considered

10/01/2006

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		Filing Date October 31, 2003	Group Art Unit 2673

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
RO	AHH	Andriy Pavlovych, Wolfgang Stürzlinger: Less-Tap: A Fast and Easy-to-learn Text Input Technique for Phones. Graphics Interface 2003, 97-104 <a href="http://www.graphicsinterface.org/cgi-bin/DownloadPaper?name=2003/170/paper170.pdf">http://www.graphicsinterface.org/cgi-bin/DownloadPaper?name=2003/170/paper170.pdf</a>
	AII	Scott MacKenzie, Hedy Kober, Derek Smith, Terry Jones, Eugene Skepner, LetterWise: prefix-based disambiguation for mobile text input, Proceedings of the 14th annual ACM symposium on User interface software and technology, November 11-14, 2001, Orlando, Florida
	AJJ	H. Kober, E. Skepner, T. Jones, H. Gutowitz, S. MacKenzie, 2001. Linguistically Optimized Text Entry on a Cell Phone. In Proceedings of the CHI 2001. <a href="http://www.eatoni.com/research/chi.pdf">http://www.eatoni.com/research/chi.pdf</a>
	AKK	Mikael Goldstein and Didier Chincholle The Finger-Joint-Gesture Wearable Keypad. Ericsson Radio Systems.
	ALL	Rosenberg, R. (1998). Computing without Mice and Keyboards: Text and Graphic Input Devices for Mobile Computing. Ph.D. Thesis, Dept. of Computer Science, University College, London, 1998. <a href="http://www.obscure.org/rosenberg/">http://www.obscure.org/rosenberg/</a>
	AMM	MacKay, B., Dearman, D., Inkpen, K., and Watters, C. 2005. Walk 'n scroll: a comparison of software-based navigation techniques for different levels of mobility. In Proceedings of the 7th international Conference on Human Computer interaction with Mobile Devices & Services (Salzburg, Austria, September 19 - 22, 2005). MobileHCI '05, vol. 111. ACM Press, New York, NY, 183-190. <a href="http://portal.acm.org/citation.cfm?id=1085808&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66591340&amp;CFTOKEN=6294934">http://portal.acm.org/citation.cfm?id=1085808&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66591340&amp;CFTOKEN=6294934</a>
	ANN	Kranz, M., Holleis, P., Schmidt, A. "DistScroll - a new one-handed interaction device". In Proceedings of the 5th International Workshop on Smart Appliances and Wearable Computing, June 10, 2005. <a href="http://www.hcilab.org/documents/DistScrollAnewOneHandedInteractionDevice-KranzHolleisSchmidt-IWSAWC2005.pdf">http://www.hcilab.org/documents/DistScrollAnewOneHandedInteractionDevice-KranzHolleisSchmidt-IWSAWC2005.pdf</a>
	AOO	Daniel Fällman, Andreas Lund, Mikael Wiberg, ScrollPad: Tangible Scrolling with Mobile Devices, Proceedings of the Proceedings of the 37th Annual Hawaii International Conference on System Sciences (HICSS'04) - Track 9, p.90286.3, January 05-08, 2004. <a href="http://portal.acm.org/citation.cfm?id=963347&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66483658&amp;CFTOKEN=36023921">http://portal.acm.org/citation.cfm?id=963347&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66483658&amp;CFTOKEN=36023921</a> <a href="http://daniel.fallman.org/resources/papers/fallman-hicss37.pdf">http://daniel.fallman.org/resources/papers/fallman-hicss37.pdf</a>
	APP	Chipman, L. E., Bederson, B. B., and Golbeck, J. A. 2004. SlideBar: analysis of a linear input device. Behav. Inf. Tech. 23, 1 (Jan. 2004), 1-9. <a href="http://portal.acm.org/citation.cfm?id=993182.993184#">http://portal.acm.org/citation.cfm?id=993182.993184#</a> <a href="http://www.cs.umd.edu/Library/TRs/CS-TR-4471/CS-TR-4471.pdf">http://www.cs.umd.edu/Library/TRs/CS-TR-4471/CS-TR-4471.pdf</a>
	AQQ	Orientation-based interaction for Mobile Devices. J. Darnauer, S. Garrity and T. Jim, Stanford University. <a href="http://hci.stanford.edu/srk/cs377a-mobile/project/final/darnauer-garrity-kim.pdf">http://hci.stanford.edu/srk/cs377a-mobile/project/final/darnauer-garrity-kim.pdf</a>
	ARR	Rekimoto, J. Tilting operations for small screen interfaces. Proceedings of the 9th annual ACM symposium on User Interface software and technology, pp. 167-168, November 06-08, 1996, Seattle. <a href="http://portal.acm.org/citation.cfm?id=237115&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66483658&amp;CFTOKEN=36023921">http://portal.acm.org/citation.cfm?id=237115&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66483658&amp;CFTOKEN=36023921</a>

Examiner Signature /Ricardo Osorio/	Date Considered 10/01/2006
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(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)			
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RO	ASS	Hinckley, K., Pierce, J., Horvitz, E., Sinclair, M. Foreground and Background Interaction with Sensor-enhanced Mobile Devices, ACM TOCHI (Transactions on Computer-Human Interaction) Special Issue on Sensor-Based Interaction, 12 (1), March 2005, pp. 31-52. <a href="http://portal.acm.org/citation.cfm?id=1057240&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66591340&amp;CFTOKEN=6294934">http://portal.acm.org/citation.cfm?id=1057240&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66591340&amp;CFTOKEN=6294934</a>	
	ATT	Hinckley, K., Cutrell, E., Bathiche, S., and Muss, T. 2002. Quantitative analysis of scrolling techniques. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems: Changing Our World, Changing Ourselves (Minneapolis, Minnesota, USA, April 20 - 25, 2002). CHI '02. ACM Press, New York, NY, 65-72. <a href="http://doi.acm.org/10.1145/503376.503389">http://doi.acm.org/10.1145/503376.503389</a>	
	AUU	Harrison, B. L., Fishkin, K. P., Gujar, A., Mochon, C., and Want, R. 1998. Squeeze me, hold me, tilt me! An exploration of manipulative user interfaces. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (Los Angeles, California, United States, April 18 - 23, 1998). C. Karat, A. Lund, J. Coutaz, and J. Karat, Eds. Conference on Human Factors in Computing Systems. ACM Press/Addison-Wesley Publishing Co., New York, NY, 17-24. <a href="http://portal.acm.org/citation.cfm?id=274647&amp;coll=Portal&amp;dl=GUIDE&amp;CFID=66588306&amp;CFTOKEN=73460863&amp;CFID=66588306&amp;CFTOKEN=73460863#">http://portal.acm.org/citation.cfm?id=274647&amp;coll=Portal&amp;dl=GUIDE&amp;CFID=66588306&amp;CFTOKEN=73460863&amp;CFID=66588306&amp;CFTOKEN=73460863#</a>	
	AVV	Kiyokuni Kawachiya, Hiroshi Ishikawa, NaviPoint: an input device for mobile information browsing, Proceedings of the SIGCHI conference on Human factors in computing systems, p.1-8, April 18-23, 1998, Los Angeles, California, United States <a href="http://portal.acm.org/citation.cfm?id=274645&amp;coll=Portal&amp;dl=GUIDE&amp;CFID=66588306&amp;CFTOKEN=73460863">http://portal.acm.org/citation.cfm?id=274645&amp;coll=Portal&amp;dl=GUIDE&amp;CFID=66588306&amp;CFTOKEN=73460863</a>	
	AWW	Hinkley, K., Pierce, J., Sinclair, M., and Horvitz, E. Sensing Techniques for Mobile Interaction. UIST 2000: ACM Symposium on User Interface Software and Technology, pp. 91-100. <a href="http://portal.acm.org/citation.cfm?id=354417&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66483658&amp;CFTOKEN=36023921">http://portal.acm.org/citation.cfm?id=354417&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66483658&amp;CFTOKEN=36023921</a>	
	AXX	Baillie, L., Kunczier, H., and Anegg, H. 2005. Rolling, rotating and imagining in a virtual mobile world. In Proceedings of the 7th international Conference on Human Computer interaction with Mobile Devices & Services (Salzburg, Austria, September 19 - 22, 2005). MobileHCI '05, vol. 111. ACM Press, New York, NY, 283-286. <a href="http://doi.acm.org/10.1145/1085777.1085833">http://doi.acm.org/10.1145/1085777.1085833</a>	
	AYY	Amy K. Karlson, Benjamin B. Bederson, John SanGiovanni, 2004. AppLens and LaunchTile: Two Designs for One-Handed Thumb Use on Small Devices <a href="http://hcil.cs.umd.edu/trs/2004-37/2004-37.html">http://hcil.cs.umd.edu/trs/2004-37/2004-37.html</a>	
	AZZ	Virpi Roto, Nokia Research. Browsing on Mobile Phones. <a href="http://www.research.att.com/~rjana/WF12_Paper1.pdf">http://www.research.att.com/~rjana/WF12_Paper1.pdf</a>	
	AAAA	Qualcomm.Slingshot <a href="http://wireless.ign.com/articles/657/657041p1.html">http://wireless.ign.com/articles/657/657041p1.html</a>	
	ABBB	GamePad <a href="http://www.mobilemag.com/content/100/345/C5578/">http://www.mobilemag.com/content/100/345/C5578/</a>	
↓	ACCC	Kyocera Candid KX16 <a href="http://www.mobilemag.com/content/100/340/C4392/">http://www.mobilemag.com/content/100/340/C4392/</a>	

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		Filing Date October 31, 2003	Group Art Unit 2673

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RO	ADDD	XEG Mobile Phone Pad <a href="http://us.gizmodo.com/gadgets/cellphones/gaming-on-the-go-with-xeg-136414.php">http://us.gizmodo.com/gadgets/cellphones/gaming-on-the-go-with-xeg-136414.php</a> <a href="http://www.akihabaranews.com/en/news-10615-XEG%2C+the+mobile+phone+pad.html">http://www.akihabaranews.com/en/news-10615-XEG%2C+the+mobile+phone+pad.html</a>
	AEEE	Samsung Game Pad <a href="http://www.cellphonemall.net/wireless/store/accessorydetail.asp?id=23198&amp;phoneid=334">http://www.cellphonemall.net/wireless/store/accessorydetail.asp?id=23198&amp;phoneid=334</a>
	AFFF	Thumbscript <a href="http://www.thumbscript.com/index.html">http://www.thumbscript.com/index.html</a> <a href="http://www.thumbscript.com/howitworks.html">http://www.thumbscript.com/howitworks.html</a> <a href="http://www.thumbscript.com/technotes.html">http://www.thumbscript.com/technotes.html</a>
	AGGG	Exideas <a href="http://www.exideas.com/ME/index.html">http://www.exideas.com/ME/index.html</a> <a href="http://www.exideas.com/ME/HardKey.html">http://www.exideas.com/ME/HardKey.html</a>
	AHHH	NE-Ware <a href="http://www.n-e-ware.com/Downloads/KeyStick/330/KSUserManual330_01.pdf">http://www.n-e-ware.com/Downloads/KeyStick/330/KSUserManual330_01.pdf</a>
	AIII	Synaptics <a href="http://www.synaptics.com/products/pdf/mobiletouch_pb.pdf">http://www.synaptics.com/products/pdf/mobiletouch_pb.pdf</a>
	AJJJ	Atrua: sensor company <a href="http://www.atrua.com/s-mobilephones.html">http://www.atrua.com/s-mobilephones.html</a>
	AKKK	Varatouch: sensor company <a href="http://www.esato.com/news/article.php?id=388">http://www.esato.com/news/article.php?id=388</a>
	ALLL	Eleksen <a href="http://www.eleksen.com">www.eleksen.com</a>
	AMMM	SHARP Vodafone ZTCJ01 <a href="http://www.slashphone.com/93/3123.html">http://www.slashphone.com/93/3123.html</a>
	ANNN	The GamePad <a href="http://www.kotaku.com/gaming/cell-phones/killer-cell-phone-game-controller-130968.php">http://www.kotaku.com/gaming/cell-phones/killer-cell-phone-game-controller-130968.php</a>
	AOOO	Sony Clie game controller PEGA-GC10 <a href="http://www.palminfocenter.com/view_story.asp?ID=4295">http://www.palminfocenter.com/view_story.asp?ID=4295</a>
	APPP	Bluetooth GPS <a href="http://mobilitytoday.com/news/005986/mobility_buyGPSnow_i-Blue_bluetooth_GPS">http://mobilitytoday.com/news/005986/mobility_buyGPSnow_i-Blue_bluetooth_GPS</a>
	AQQQ	Alphagrip <a href="http://www.alphagrips.com/AlphagripAG5UsersManual.pdf">http://www.alphagrips.com/AlphagripAG5UsersManual.pdf</a>
	ARRR	Tegic - T9 <a href="http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%201.pdf">http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%201.pdf</a> <a href="http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%202.pdf">http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%202.pdf</a> <a href="http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%203.pdf">http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%203.pdf</a> <a href="http://www.tegic.com/pdfs/salessheets/Sloppy%20Type%20Sales%20Sheet.pdf">http://www.tegic.com/pdfs/salessheets/Sloppy%20Type%20Sales%20Sheet.pdf</a>
	ASSS	Zicorp - eZiTap <a href="http://www.zicorp.com/eZiTap.htm">http://www.zicorp.com/eZiTap.htm</a>
✓	ATTT	Motorola - iTAP <a href="http://news.zdnet.co.uk/hardware/mobile/0,39020360,39118435,00.htm">http://news.zdnet.co.uk/hardware/mobile/0,39020360,39118435,00.htm</a>
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Other Documents (include Author, Title, Date, and Place of Publication)		
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RO	AUUU	DigitWireless: FastTap <a href="http://www.digitwireless.com/flash/download/fastap.pdf">http://www.digitwireless.com/flash/download/fastap.pdf</a>
	AVVV	Microth KeyWheel <a href="http://www.microth.com/circumscrip/overview.asp">http://www.microth.com/circumscrip/overview.asp</a>
	AWWW	Yuvee; special keypad layout <a href="http://www.yuvee.com">www.yuvee.com</a> <a href="http://www.yuvee.com/builtin1.shtml">http://www.yuvee.com/builtin1.shtml</a> <a href="http://www.yuvee.com/built_in_b.shtml">http://www.yuvee.com/built_in_b.shtml</a> <a href="http://www.yuvee.com/testdrive2.shtml">http://www.yuvee.com/testdrive2.shtml</a>
	AXXX	Twiddler <a href="http://www.handykey.com/">http://www.handykey.com/</a> <a href="http://www.handykey.com/Keymap.pdf">http://www.handykey.com/Keymap.pdf</a>
	AYYY	Sengital Ltd. Tilt sensor replacement for PDA <a href="http://sengital.manufacturer.globalsources.com/si/6008823523892/ProductDetail/PDA-keyboard/product_id-1001050135/action-GetProduct.htm">http://sengital.manufacturer.globalsources.com/si/6008823523892/ProductDetail/PDA-keyboard/product_id-1001050135/action-GetProduct.htm</a>
	AZZZ	Howard.co.kr - The mouse phone <a href="http://www.howard.co.kr/computer/mouse/mousephone.htm">http://www.howard.co.kr/computer/mouse/mousephone.htm</a>
	AAAAA	Nokia 6620 with a control stick <a href="http://nds2.nokia.com/files/support/nam/phones/guides/6620_US_en.PDF">http://nds2.nokia.com/files/support/nam/phones/guides/6620_US_en.PDF</a>
	ABBBB	Sega into cell phones <a href="http://www.phoneynworld.com/newspage.aspx?n=1745">http://www.phoneynworld.com/newspage.aspx?n=1745</a>
	ACCCC	Prevalent Devices LLC <a href="http://www.prevalentdevices.com/manual3-5-06.pdf">http://www.prevalentdevices.com/manual3-5-06.pdf</a>
	ADDDD	M. Kolsch, M. Turk, 2002. Keyboards without Keyboards: A Survey of Virtual Keyboards. UCSB Technical Report 2002-21, July 12, 2002. <a href="http://www.cs.ucsb.edu/research/tech_reports/reports/2002-21.pdf">http://www.cs.ucsb.edu/research/tech_reports/reports/2002-21.pdf</a>
	AEEEE	Jeong-Hoon Shin and Kwang-Seok Hong. An improved alphanumeric input algorithm using gloves. <a href="http://www.complexity.org.au/conference/upload/shin01/shin01.pdf">http://www.complexity.org.au/conference/upload/shin01/shin01.pdf</a>
	AFFFF	C. Metzger, M. Anderson, T. Starner, 2004. FreeDigger: A Contact-Free Device for Gesture Control. Eighth IEEE International Symposium on Wearable Computers (ISWC'04) pp. 18-21. <a href="http://www.wirelessrerc.gatech.edu/projects/development/D1files/iswc04-freedigiter.pdf">http://www.wirelessrerc.gatech.edu/projects/development/D1files/iswc04-freedigiter.pdf</a>
	AGGGG	Rakkolainen, I. (2003). MobiVR - a novel user interface concept for mobile computing. In: Bieber, K. & Kirste, T. (eds.), Proceedings of the 4th International Workshop on Mobile Computing, IMC 2003, 17-18 June 2003, Rostock, Germany, pp. 107-112. <a href="http://www.cs.tut.fi/~ira/IMC2003.pdf">http://www.cs.tut.fi/~ira/IMC2003.pdf</a>
	AHHHH	Lumsden, J., Gammell, A. (2004). Mobile Note Taking: Investigating the Efficacy of Mobile Text Entry. In Proc. of Mobile Human-Computer Interaction (MobileHCI 2004), Glasgow, UK, Sept. 2004: In S. Brewster and M. Dunlop (Eds.). Mobile Human-Computer-Interaction - MobileHCI 2004, Lecture Notes in Computer Science, Vol. 3160, Berlin: Springer, 156-168.
↓	AIIII	MacKenzie, I. S., & Soukoreff, R. W. Phrase sets for evaluating text entry techniques. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems - CHI 2003, pp. 754-755 New York: ACM

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RO	AJJJJ	MacKenzie, I. S. (2002). KSPC (keystrokes per character) as a characteristic of text entry techniques. Proceedings of the Fourth International Symposium on Human-Computer Interaction with Mobile Devices, pp. 195-210. Heidelberg, Germany: Springer-Verlag
	AKKKK	Soukoreff, R. W. and MacKenzie, I. S. (2004). Recent Developments in Text-Entry Error Rate Measurement. CHI 2004, Late Breaking Results Paper, Vienna Austria, April 24-29, 2004.
	ALLLL	Lee, S. and Hong S.H.. Chording as a Text Entry Method in Mobile Phones. In Proceedings of the MobileHCI 2004: 6th International Symposium, Glasgow, UK, September 13-16, 2004.
	AMMMM	Green, N., Kruger, J., Faldu, C., and St. Amant, R. 2004. A reduced QWERTY keyboard for mobile text entry. In CHI '04 Extended Abstracts on Human Factors in Computing Systems (Vienna, Austria, April 24 - 29, 2004). CHI '04. ACM Press, New York, NY, 1429-1432. <a href="http://portal.acm.org/citation.cfm?id=986082&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66591340&amp;CFTOKEN=6294934">http://portal.acm.org/citation.cfm?id=986082&amp;coll=GUIDE&amp;dl=GUIDE&amp;CFID=66591340&amp;CFTOKEN=6294934</a>
	ANNNN	Partridge, K., Chatterjee, S., Sazawal, V., Borriello, G., and Want, R. TiltType: accelerometer-supported text entry for very small devices, Proceedings of the 15th annual ACM symposium on User interface software and technology, October 27-30, 2002, Paris, France
	AOOOO	Mikael Goldstein, Didier Chincholle, Morten Back (2000). Assessing Two New Wearable Input Paradigms: The Finger-Joint-Gesture Palm-Keypad-Glove-and-the-Invisible-Phone-Clock: Personal and Ubiquitous Computing, Volume 4, Issue 2/3.
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 19146-002001	Application No. 10/699,555
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Beth Marcus, et al	
		Filing Date October 31, 2003	Group Art Unit 2673

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RO	AV	Donner, J. (2005). Research Approaches to Mobile Use in Developing World: A Review of the Literature. International Conference on Mobile Communication and Asian Modernities City University of Hong Kong, June 7-8 2005.
	AW	Min, Lin and Sears, Andrew (2005). Graphics Matter: A Case Study of Mobile Phone Keypad Design for Chinese Input. CHI 2005, Late Breaking Results: Posters, Portland, Oregon. April 2-7, 2005.
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	AY	Starner, T. "Keyboards Redux: Fast Mobile Text Entry". Pervasive Computing, July - September 2004, Pp. 97-101. <a href="http://www.cc.gatech.edu/fac/Thad.Starner/p/magazine/2004-3-keyboard-redux.pdf">http://www.cc.gatech.edu/fac/Thad.Starner/p/magazine/2004-3-keyboard-redux.pdf</a>
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	<del>AAA</del>	<del>Chording and Tilting - Daniel Wigdor (thesis) - 2004- describes chordtap and tilttap (also covered in depth in the paper-referenced below)- <a href="http://www.dgp.toronto.edu/~dwigdor/research/thesis/submitted.html">http://www.dgp.toronto.edu/~dwigdor/research/thesis/submitted.html</a></del>
	ABB	Wigdor, D. and Balakrishnan, R. "A Comparison of Consecutive and Concurrent Input Text Entry Techniques for Mobile Phones", Conference on Human Factors, April 24-29, 2004, Volume 6, Number 1, pp. 81-88 <a href="http://portal.acm.org/citation.cfm?id=985703">http://portal.acm.org/citation.cfm?id=985703</a> <a href="http://www.dgp.toronto.edu/~ravin/papers/chi2004_concurrenttextinput.pdf">http://www.dgp.toronto.edu/~ravin/papers/chi2004_concurrenttextinput.pdf</a>
	ACC	Oniszcak, A., & MacKenzie, I. S. (2004). A comparison of two input methods for keypads on mobile devices. Proceedings of NordiCHI 2004, pp. 101-104. New York: ACM. <a href="http://www.yorku.ca/mack/nordichi2004.pdf">http://www.yorku.ca/mack/nordichi2004.pdf</a>
	ADD	K. Lyons. Everyday wearable computer use: A case study of an expert user. In Proceedings of Mobile HCI 2003, pages 61-75, 2003. <a href="http://www.cc.gatech.edu/ccg/publications/everyday_case.pdf">http://www.cc.gatech.edu/ccg/publications/everyday_case.pdf</a>
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↓	AGG	M. D. Dunlop and A. Crossan, "Dictionary based text entry method for mobile phones", published in Brewster, S.A., and Dunlop, M.D., (editors). Proceedings of Second Workshop on Human Computer Interaction with Mobile Devices, August 1999. <a href="http://www.cis.strath.ac.uk/~mdd/research/publications/99dunlopcrossan.pdf">http://www.cis.strath.ac.uk/~mdd/research/publications/99dunlopcrossan.pdf</a>

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		Filing Date October 31, 2003	Group Art Unit 2673

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RO	AWWW	Kjeldskov, J. Stage, J. (2004). New Techniques for Usability Evaluation of Mobile Systems. International Journal of Human-Computer Studies, May 2004, 60 (5-6): 599--620.

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### U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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↓	AB	2003/193418	10/16/2003	Shi			
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	AD	2003/169188	9/11/2003	Chang et al.			
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	AF						
	AG						
	AH						
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	AJ						
	AK						

### Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
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RO	AN	03/042805	5/22/2003	WIPO				
	AO							
	AP							

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

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Sheet 1 of 2

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16300-002001	Application No. to be assigned
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant <b>Beth Marcus, et al</b>	
		Filing Date October 31, 2003	Group Art Unit to be assigned

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
	AW						Yes	No

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Substitute Disclosure Form (PTO-1449)

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		Filing Date <b>October 31, 2003</b>	Group Art Unit <b>to be assigned</b>

Other Documents (include Author, Title, Date, and Place of Publication)		
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RO	AX	Buxton, "A Directory of Sources for Input Technologies", 10/1/2003, <a href="http://www.billbuxton.com/InputSources.html">http://www.billbuxton.com/InputSources.html</a>
	AY	"Introducing the Dvorak Keyboard", <a href="http://www.mwbrooks.com/dvorak/">http://www.mwbrooks.com/dvorak/</a>
	AZ	Innovative Ergonomic Solutions, Cirque Pocket Keyboard, <a href="http://www.iesproducts.com/key-misc-pocket.html">http://www.iesproducts.com/key-misc-pocket.html</a>
	AAA	Buxton, "Human Input to Computer Systems: Theories, Techniques and Technology", <a href="http://billbuxton.com/inputManuscript.html">http://billbuxton.com/inputManuscript.html</a>
	ABB	Buxton, "An Introduction to Human Input to Computers", 6 April 1999, <a href="http://www.billbuxton.com/input01.Introduction.pdf">http://www.billbuxton.com/input01.Introduction.pdf</a>
	ACC	Unidentified and Undated Document discussing alternative designs to QWERTY Keyboard, pages 2-10
	ADD	
<b>V</b>	AEE	

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